

Title (en)
CONTROLLING INSTALLATION FOR LIFTING AND LOWERING THE VEHICLE BODY OF AIR-SUSPENDED MOTOR VEHICLES WITH LEVEL CONTROL

Title (de)
STEUERANLAGE ZUM HEBEN UND SENKEN DES FAHRZEUGAUFBAUS VON LUFTGEFEDERTEN FAHRZEUGEN MIT NIVEAUREGELUNG

Title (fr)
SYSTEME DE COMMANDE PERMETTANT DE LEVER ET DE BAISSER LA CARROSSERIE DE VEHICULES A SUSPENSION PNEUMATIQUE AVEC REGULATION DE NIVEAU

Publication
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Application
EP 00965985 A 20000913

Priority
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• EP 0008920 W 20000913

Abstract (en)
[origin: US2002096840A1] A control system is designed to lift and lower the body of an air-suspended vehicle including an axle and level control. The system includes a source of compressed air, a plurality of air-suspension bellows each being associated with at least one axle and being designed and arranged to adjust a desired distance between the body and the axle, a path sensor being designed and arranged to sense and determine the distance between the body and the axle and to create and deliver a respective electric signal, a switching valve unit having a lifting position, a lowering position, a driving position and a stop position, an electronic control unit being designed and arranged to control the switching valve unit in response to the electric signal delivered by the path sensor, a first conduit branch being located between the source of compressed air and the air-suspension bellows, a second conduit branch being located between the source of compressed air and the air-suspension bellows, at least one level control valve located in the first conduit branch, and at least one locking valve being located in one of the conduit branches and including a spring, the locking valve being designed and arranged to be electrically switched to reach a first position and to be switched by the spring to reach a second position. The first conduit branch is designed and arranged to be activated in the second position, and the second conduit branch being designed and arranged to be activated in the first position.

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Citation (search report)
See references of WO 0121422A1

Cited by
EP4197829A1; EP2168788A1

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US 2002096840 A1 20020725; **US 6623016 B2 20030923**; AT E252463 T1 20031115; BR 0014083 A 20020514; BR 0014083 B1 20100615; DE 19944873 C1 20010104; DE 50004190 D1 20031127; EP 1212205 A1 20020612; EP 1212205 B1 20031022; ES 2207556 T3 20040601; WO 0121422 A1 20010329

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